

Climate Adaptation Project for the Sierra Nevada - Project Overview



Photos: Sierra Forest Legacy

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Climate Adaptation Project for the Sierra Nevada - Project Overview

- Overall goal: develop large-scale vulnerability assessment and associated adaptation strategies for focal resources of the Sierra Nevada
- History
 - Funded by the California Landscape Conservation Cooperative
 - Led by EcoAdapt and GEOS Institute in collaboration with the Pacific Southwest Region of the USFS
- About our project
 - Many partners!
 - Geographic scope
 - Funding sources, timeline



Photos: Sierra Forest Legacy



Project Objectives

1. Assess the vulnerability of a suite of focal resources to climate change;
2. Use spatial analysis and expert input to prioritize conservation areas or actions; and
3. Identify implementable management responses to climate change in the Sierra Nevada.

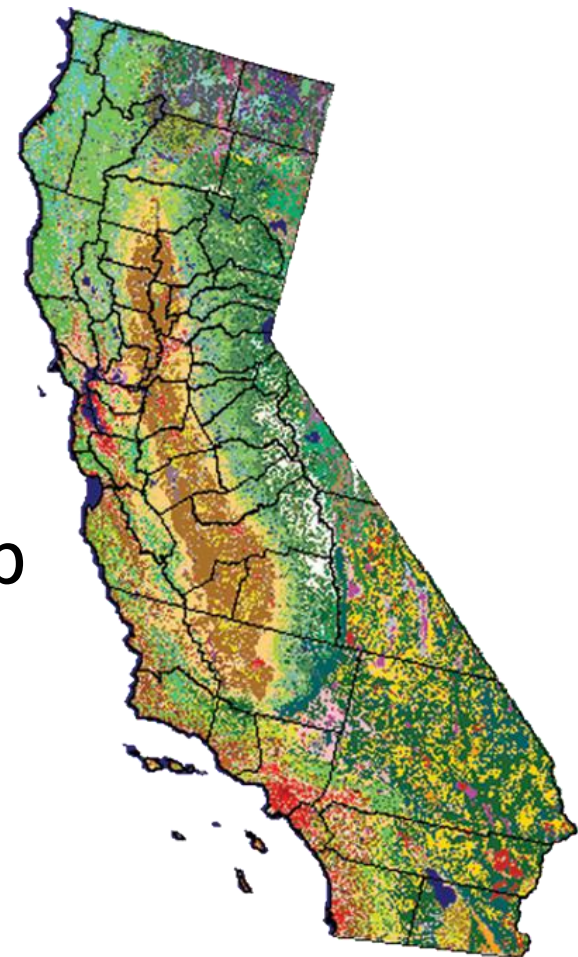
Photos: Jonny Armstrong





Work Plan

1. Convene committees
2. Select focal resources
3. Vulnerability assessment workshop
4. Spatial analysis
5. Adaptation planning workshop
6. Finalize products



Photos : Jonny Armstrong



Work Plan – Steps 1 & 2

1. Convene science and stakeholder committees
2. Develop common list of focal resources
 - FS developed initial list
 - Stakeholder Advisory Committee to revise focal resource list



Photos from Jonny Armstrong



Work Plan – Step 3

3. Vulnerability Assessment Workshop (March 5-7, 2013)

A. PRE-WORKSHOP

- Lit review of sensitivity, adaptive capacity for focal resources
- Review downscaled climate data (exposure)

B. WORKSHOP

- Basic vulnerability assessment training
- Identify management decisions
- Use expert elicitation process to assess vulnerability of focal resources

C. POST-WORKSHOP

- VA products (narratives, scores, climate impacts maps) will be posted online
- Workshop support page for all materials



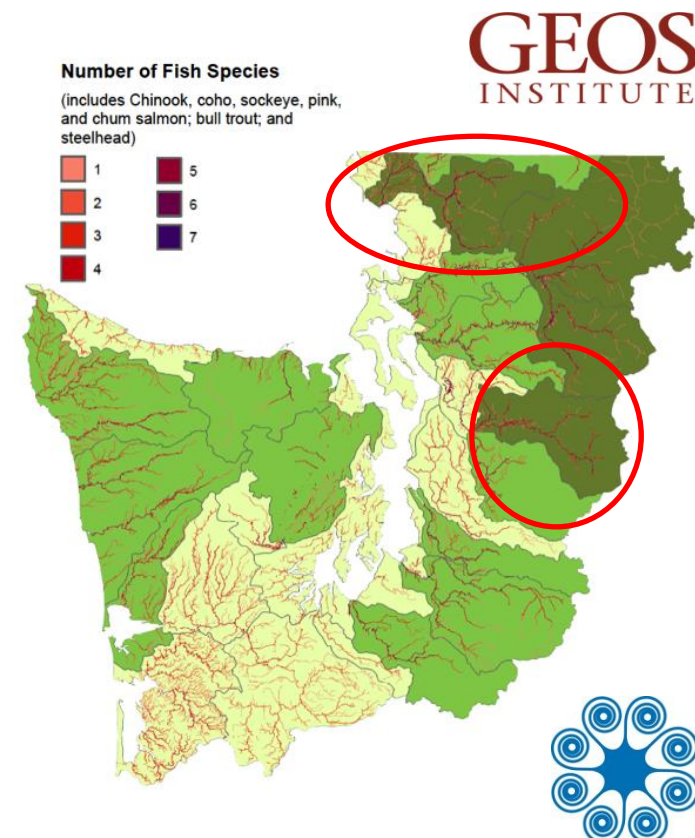
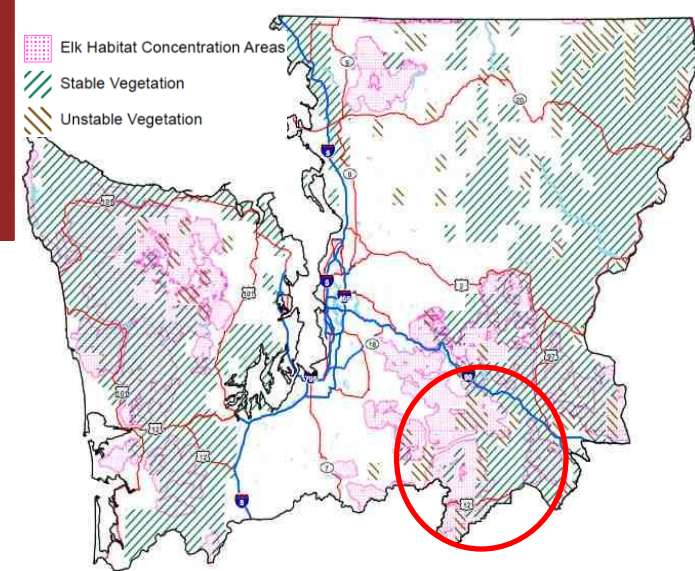
Work Plan – Steps 4 & 5

4. Spatial Analysis

- CBI to create maps intended to facilitate the development of adaptation approaches

5. Adaptation Planning Workshop (May 2013)

- Review VA and spatial analysis results
- Provide basic adaptation training
- Develop adaptation strategies and prioritize areas or actions
- Identify approaches that extend across boundaries as well as complementary action opportunities



Work Plan – Step 6

6. Finalize Products

- Online resource of vulnerability assessment findings
 - Narratives, scores, peer-reviewed resources
- Comparative maps (digital, pdf)
- Online resource of adaptation strategies for focal resources and the region
- Workshop support pages
 - Presentations, handouts, worksheets, etc.



Products will be available online (through CA LCC, EcoAdapt, Data Basin)

Question?

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Photos from Jonny Armstrong



Climate Adaptation Project for the Sierra Nevada (EcoAdapt/CA LCC project)

Select focal
resources

TACCIMO lit
review (sensitivity,
adaptive capacity)

Downscaled climate
data (MC1, hydrologic
models)

Informs

WORKSHOP 1

Vulnerability Assessment
for focal resources

SPATIAL ANALYSIS

WORKSHOP 2

Adaptation Planning and
Prioritization for focal
resources

How Project Fits with Forest Plan Revisions

Vulnerability
Assessment/Ada
ptation Strategy
(VA/AS)Effort

Integrate information

Science Synthesis
Report

Informs

**BIOREGIONAL
ASSESSMENT FOR
PLAN REVISION**

USFS Region 5 Forest Plan Revision Process

Forest Plan
Revision (NEPA)

Contributes to

Climate Change
Scorecard Elements 4, 5,
6, 7,8

Contributes to

Informs

